

Foundation Mix

Readymix application products



Foundation Mix

What is Foundation Mix?

It is a Readymix branded product with specific focus on strength gain and workability that can be used for all non-residential foundations.

Foundation Mix has a target strength of between 10 and 35 MPa. The target slump for Foundation Mix is 100 mm.

Features of Foundation Mix

- Will flow into difficult areas and shapes.
- Has increased resistance to aggressive environments due to the slagment and/or fly-ash content in the mix.
- Is a cost effective solution.

Benefits of Foundation Mix

- Faster placing into irregular shapes leading to better productivity.
- More durable concrete with less likelihood of concrete deterioration.

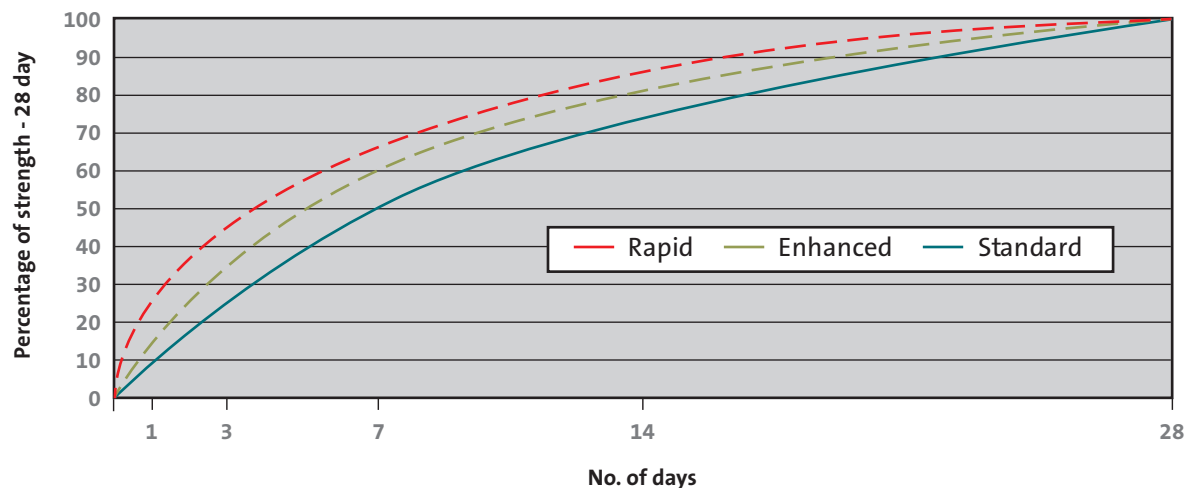


Performance based product offer

AfriSam produce performance based concrete which is aimed at ensuring the best product solution cost effectively. This is achieved by ensuring that the concrete gains strength at a suitable rate for the application. Shown below is a typical 25 MPa concrete strength

gain curve depicting three AfriSam differential strength gain options which provide the basis for strength gain solutions. Foundation Mix usually requires a 'standard strength' gain.

Typical minimum 28 day strength gain curve for 25 MPa concrete

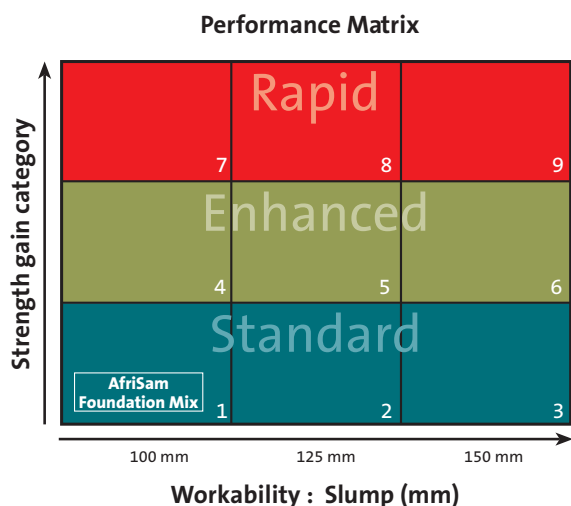


Notes:

- The curves serve as a guide and may vary.
- The following results are attained under standard testing and curing conditions.
- Actual performance on site may vary due to adverse climatic conditions.
- Detailed strength gain curves by project may be requested from technical services.

Optimal product offering

The more workable a concrete mix is, the easier it is to place, compact and finish. Foundation Mix has been formulated in conjunction with our product specialist customers and is optimally designed to provide perfect rate of strength gain and workability for the application.



Use in other applications

AfriSam have gone to great lengths to design new products that are fit for purpose. However, in the unlikely event of having extra concrete left over after a pour, Foundation Mix can be used for retaining walls - good vibrating practice is required.



Plastic cracking in concrete

Two types of cracking occur in concrete. The information provided is to assist in the reduction of cracks. The types of cracks that may occur are:

- Plastic shrinkage cracking
- Plastic settlement cracking

Plastic shrinkage cracking

The underlying cause of these cracks is the rapid removal or evaporation of water from the concrete. This is exasperated with higher concrete or ambient temperatures, relative humidities or wind velocities. It can also result due to absorbent formwork. The cracks usually appear within two hours after compacting but are often not noticed until the following day. Plastic shrinkage may be prevented by:

- Erection of wind breaks
- Protection with moisture retaining covers
- Fog spray before finishing of concrete

Plastic settlement cracking

The underlying cause of these cracks is the settling of solid particles which displaces mixing water that rises to the surface. These cracks form immediately in the vicinity of reinforcing steel or deeper sections.

- Re-vibrating of concrete at a suitable time may reduce plastic settlement cracking.



Readymix Plant Locations

Gauteng

Alrode
Eikenhof
Ferro
Jukskei
Kwagga
Kya Sands
Nancefield
Olifantsfontein
Rosslyn
Scoop
Spartan
Technikon
Vanderbijlpark
Vereeniging
Wadeville
Wynberg

Mpumalanga

Evander
Middelburg
Witbank

NorthWest

Brits
Marikana
Rustenburg

KwaZulu-Natal

Coedmore
Ladysmith
Newcastle
Ottawa
Umgeni
Isipingo

Western Cape

Bellville
City
Philippi
Peninsula

Botswana

Gaborone

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